Digital Literacy Assignment Week 4

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1. TCP/IP protocol is the one internet standard that now all people use. The Internet protocol suite provide end to end data communication specifying how data should be packetized, addressed, transmitted, routed, and received. This functionality is organized into four abstraction layers which classify all related protocols according to the scope of networking involved.
2. The Open Systems Interconnection model (OSI model) is a conceptual model that characterizes and standardizes the communication functions of a telecommunication or computing system without regard to its underlying internal structure and technology. Its goal is the interoperability of diverse communication systems with standard communication protocol. The model partitions a communication system into abstraction layer. The Difference is OSI model is the layer itself about the structure and technology standard and to prevent error.
3. So first you have to have a router that is connected to the internet service provider then you can choose to use the internet via WIFI or LAN cable. To connect, make sure the device used has a WIFI or LAN cable hole. Then connect.
4. IP Address is An Internet Protocol address is a numerical label assigned to each device connected to a computer network that uses the Internet Protocol for communication. An IP address serves two main functions: host or network interface identification and location addressing. The IP address is a 32-bit number that uniquely identifies a network interface on a machine. An IP address is typically written in decimal digits, formatted as four 8-bit fields separated by periods. An external or public IP address is used across the entire Internet to locate computer systems and devices. A local or internal IP address is used inside a private network to locate the computers and devices connected to it.
5. In IPv4 there are only 32-bit numbers formatted in 8-bit fields in 4 octets. So, the possible IP Address in the whole world is around 4.2 billion, and research said that it will run out in 2018. That's why they develop IPv6 which is 128-bit fields in 16 octets which makes the possibility way much bigger.
6. IP Address is hard to remember if we compare it to domain names. Normal human is better at remembering a text than a bunch of numbers. That's why domains exist and it is easier for us to access websites with the domain name than IP Address.
7. IoT or Internet of Things is how the internet is implemented in any modern device. It makes our device become smarter, more accessible, and more functional. For example, a car that moves by itself. There are way too many examples, almost every modern device that has been released uses the Internet of Things to make the device way smarter.